

Title (en)

PASSIVE DEVICE FOR THE DETECTION AND/OR DETERMINATION IN SITU OF AMINES IN GASES

Title (de)

PASSIVE VORRICHTUNG ZUM NACHWEIS UND/ODER ZUR BESTIMMUNG VON AMINEN IN GASEN IN SITU

Title (fr)

DISPOSITIF PASSIF POUR LA DÉTECTION ET/OU LA DÉTERMINATION IN SITU D'AMINES DANS DES GAZ

Publication

EP 3001184 A4 20170322 (EN)

Application

EP 14795283 A 20140507

Priority

- ES 201300436 A 20130507
- ES 2014000077 W 20140507

Abstract (en)

[origin: EP3001184A1] A sensor for the detection and/or determination in situ of amines in air, such as atmospheric air, is obtained by means of a direct, easy and reproducible synthesis consisting in soaking the derivatisation agent sodium 1,3-naphthoquinone-4-sulfonate (NQS) in polydimethylsiloxane (PDMS). It has been shown that the device can detect amine concentrations of 3 mg/m³ in 5 hours. Both the device and its response to the presence of amines remain stable over time. In addition, no external source is required for detection (i.e. it is a passive sensor that allows amines to be detected by means of visual inspection), requiring zero energy cost and having no toxicity, since both the NQS and the PDMS are non toxic.

IPC 8 full level

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CPC (source: EP ES)

G01N 21/77 (2013.01 - ES); **G01N 21/783** (2013.01 - EP); **G01N 31/224** (2013.01 - EP)

Citation (search report)

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